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1 [Taint effective taint analysis of web applications](#)

Omri Tsip, Marco Patoa, Shoshen J. Fiat, Mado Sidharan, Omri Weisman

June 2009 **PLDI '09: Proceedings of the 2009 ACM SIGPLAN conference on Programming language design and implementation****Publisher:** ACM [Request Permissions](#)Full text available [PDF](#) (441 49 KB)**Bibliometrics:** Downloads (6 Weeks): 30, Downloads (12 Months): 158, Downloads (Overall): 539, Citation Count:

Taint analysis, a form of information-flow analysis, establishes whether values from untrusted methods and parameters may flow into security-sensitive operations. Taint analysis can detect many common vulnerabilities Web applications, and so has attracted

**Keywords:** java, program analysis, security, slicing, static analysis, taint analysis, web application

Also published in:

May 2009 **SIGPLAN Notices** Volume 44 Issue 52 [Predictable performance and high query concurrency for data analytics](#)

Gordon Gertz, Neelke Polyzou, Rakesh Vengralek

April 2011 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 20 Issue 2**Publisher:** Springer-Verlag New York, Inc.Full text available [PDF](#) (993 19 KB)**Bibliometrics:** Downloads (6 Weeks): 36, Downloads (12 Months): 91, Downloads (Overall): 91, Citation Count: 0

Conventional data warehouses use the query-at-a-time model, which maps each query to a distinct physical plan. When several queries execute concurrently, this model introduces contention and thrashing, because the physical plans-unaware of each other-compete.

**Keywords:** Concurrency, Join, Sharing, Warehouse3 [Error propagation analysis for file systems](#)

Cindy Rubio-González, Mayadi S. Gupta, Ben Libit, Ramli H. Araque-Dussau, Andrea C. Araque-Dussau

June 2009 **PLDI '09: Proceedings of the 2009 ACM SIGPLAN conference on Programming language design and implementation****Publisher:** ACM [Request Permissions](#)Full text available [PDF](#) (806 22 KB)**Bibliometrics:** Downloads (6 Weeks): 29, Downloads (12 Months): 100, Downloads (Overall): 316, Citation Count:

Unchecked errors are especially pernicious in operating system file management code. Transient or permanent hardware failures are inevitable, and error-management bugs at the file system layer can cause silent, unrecoverable data corruption. We propose

**Keywords:** binary decision diagrams, copy constant propagation, interprocedural dataflow analysis, static program analysis, weighted pushdown systems

Also published in:

May 2009 **SIGPLAN Notices** Volume 44 Issue 54 [Fault diagnosis for high-level applications based on dynamic Bayesian network](#)

Zhongmin Li, Li-Guozhi, Xue-Song, Liu, Li-Jia

September 2009 **APNOMS'09: Proceedings of the 12th Asia-Pacific network operations and management conference**

Management enabling the future internet for changing business and new computing services

**Publisher:** Springer-Verlag**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

In order to improve the quality of Internet service, it is important to quickly and accurately diagnose the root of

from the observed symptoms and knowledge. Because of the dynamical changes in service system which are caused by many factors such

**Keywords:** approximate inference, dynamic bayesian network, fault diagnosis, noisy environment

5 [Use of ontologies in a pervasive computing environment](#)

Anand Ranganathan, Robert E McGrath, Roy H Campbell, M. Dennis McKunas

September 2003

**The Knowledge Engineering Review** Volume 18 Issue 3

**Publisher:** Cambridge University Press

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Ontologies are entering widespread use in many areas such as knowledge and content management, electronic commerce and the Semantic Web. In this paper we show how the use of ontologies has helped us overcome so important problems in the development ...

6 [Simulations of large-scale WiFi-based wireless networks: interdisciplinary challenges and applications](#)

Masahito Nekovias, Naohiro S. Sakuma

March 2010

**Future Generation Computer Systems** Volume 26 Issue 3

**Publisher:** Elsevier Science Publishers B. V.

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Wireless Fidelity (WiFi) is the fastest growing wireless technology to date. In addition to providing wire-free connectivity to the Internet WiFi technology also enables mobile devices to connect directly to each other and highly dynamic wireless ...

**Keywords:** interacting many-particle systems, Large-scale simulations, Wireless computer networks, Wireless grids

7 [Capriccio: scalable threads for internet services](#)

Rob van Sahnen, Jeremy Condit, Fred Zhao, George O. Neagus, Eric Brewer

December 2003

**SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles**

**Publisher:** ACM 

Full text available  (312.83 KB)

**Bibliometrics:** Downloads (6 Weeks): 33, Downloads (12 Months): 155, Downloads (Overall): 1340, Citation Count:

This paper presents Capriccio, a scalable thread package for use with high-concurrency servers. While recent work has advocated event-based systems, we believe that thread-based systems can provide a simpler programming model that achieves equivalent ...

**Keywords:** blocking graph, dynamic stack growth, linked stack management, resource-aware scheduling, user level threads

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5


8 [T1: an efficient indexing mechanism for real-time search on tweets](#)

Chun Chao, Feng Li, Bing Chao Gu, Gai Wu

June 2011

**SIGMOD '11: Proceedings of the 2011 international conference on Management of data**

**Publisher:** ACM 

Full text available  (1.05 MB)

**Bibliometrics:** Downloads (6 Weeks): 57, Downloads (12 Months): 191, Downloads (Overall): 191, Citation Count:

Real-time search dictates that new contents be made available for search immediately following their creation. the database perspective, this requirement may be quite easily met by creating an up-to-date index for the contents and measuring search ...

**Keywords:** index, ranking, real-time search


9 [The end of an architectural era: \(it's time for a complete rewrite\)](#)

Michael Stonebraker, Samir Madden, Daniel J. Abadi, Stavros Harizopoulos, Nabil Hachem, Pat Hellwig

September 2007

**Vldb '07: Proceedings of the 33rd international conference on Very large data base**

**Publisher:** VLDB Endowment

Full text available  (445.58 KB)

**Bibliometrics:** Downloads (6 Weeks): 37, Downloads (12 Months): 280, Downloads (Overall): 1187, Citation Count:

In previous papers [SC05, SBC+07], some of us predicted the end of "one size fits all" as a commercial relational DBMS paradigm. These papers presented reasons and experimental evidence that showed that the major RDBMS vendors can be outperformed by ...

- <http://dl.acm.org/results.cfm?CFID=54313222&CFTOKEN=94224188&adv=1&COLL=...> 11/18/2011

Spatiotemporal objects – that is, objects that evolve over time – appear in many applications. Due to the nature of such applications, storing the evolution of objects through time in order to answer historical queries (queries that refer to past events) is a challenging task.

**Keywords:** Indexing, Moving objects, Spatiotemporal databases, Trajectories

16 [Data stream management for historical XML data](#)

[Sujata Kulkarni, Leandros Fegaras](#)

June 2004 **SIGMOD '04**: Proceedings of the 2004 ACM SIGMOD international conference on Management of data

**Publisher:** ACM [Request Permissions](#)

Full text available [PDF](#) (207.19 KB)

**Bibliometrics** Downloads (6 Weeks): 5, Downloads (12 Months): 25, Downloads (Overall): 895, Citation Count: 5

We are presenting a framework for continuous querying of time-varying streamed XML data. A continuous stream of updates to a XML document is followed by a continuous stream of updates. The unit of update is an XML fragment, which can be added or removed from the document.

17 [Factors mediating disclosure in social network sites](#)

[Fred S. Shuman, Robert C. Smith, Jennifer Thompson](#)

January 2011 **Computers in Human Behavior**, Volume 27 Issue 1

**Publisher:** Elsevier Science Publishers B.V.

**Bibliometrics** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

In this paper, we explore how privacy settings and privacy policy consumption (reading the privacy policy) affect the relationship between privacy attitudes and disclosure behaviors. We present results from a survey completed by 122 users of Facebook.

**Keywords:** Facebook, Policy, Privacy, Social network sites, Social networking, Survey

18 [RTVR: a flexible Java library for interactive volume rendering](#)

[Lukas M. G. Henning, Hauser](#)

October 2001 **VIS '01**: Proceedings of the conference on Visualization '01

**Publisher:** IEEE Computer Society

Full text available [Publisher Site](#), [PDF](#) (2.08 MB)

**Bibliometrics** Downloads (6 Weeks): 3, Downloads (12 Months): 11, Downloads (Overall): 387, Citation Count: 6

This paper presents several distinguishing design features of RTVR - a Java-based library for real-time volume rendering. We describe, how the careful design of data structures, which in our case are based on voxel enumeration, and an intelligent use of hardware acceleration.

**Keywords:** interactive volume visualization, internet-based visualization, Java

19 [OceanStore: an architecture for global-scale persistent storage](#)

[John R. Douglis, David Bindel, Yan Chen, Steven Chong, Patrick Hristov, Dennis Deeds, Ramakrishna Gummadi, Sean Hsu, Hakim Weatherspoon, Chris Wells, Ben Zhao](#)

December 2000 **ASPLS-IX**: Proceedings of the ninth international conference on Architectural support for programming languages and operating systems

**Publisher:** ACM [Request Permissions](#)

Full text available [PDF](#) (166.53 KB)

**Bibliometrics** Downloads (6 Weeks): 39, Downloads (12 Months): 274, Downloads (Overall): 2353, Citation Count: 10

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques.

Also published in:

December 2000 **SIGARCH Computer Architecture News** Volume 28 Issue 5

December 2000 **SIGOPS Operating Systems Review** Volume 34 Issue 5

20 [Address space randomization for mobile devices](#)

[Hiroo Bolchini, Dan Bonah, Ben Czerwinski, Ilan Gershon, Ilan Maltsev](#)

June 2011 **WiSec '11**: Proceedings of the fourth ACM conference on Wireless network security

**Publisher:** ACM [Request Permissions](#)

Full text available [PDF](#) (580.85 KB)

**Bibliometrics** Downloads (6 Weeks): 35, Downloads (12 Months): 58, Downloads (Overall): 58, Citation Count: 0

Address Space Layout Randomization (ASLR) is a defensive technique supported by many desktop and server operating systems.

operating systems. While smartphone vendors wish to make it available on their platforms, there are technical challenges in implementing ASLR on these

**Keywords:** ASLR, android, control ow hijacking, mobile devices, return-to-libc, smartphones

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